LAKE: MOOSE HILL P (VLMP 07)

TOWN: LIVERMORE FALLS COUNTY: ANDROSCOGGIN MIDAS: 5790
TRUE BASIN: 1
SAMPLE STATION: 1

WHOLE LAKE INFORMATION

MAX. DEPTH: 13 m. (42 ft.)

MEAN DEPTH: 5 m. (17 ft.)

DELORME ATLAS #: 12

USGS QUAD: LIVERMORE FALLS

IFW REGION B: Belgrade Lakes (Augusta)

IFW FISH. MANAGMENT: Warmwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: 38.0 ha. (93.9 a.)

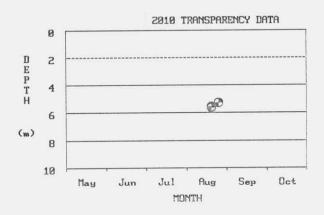
FLUSHING RATE: 0.40 flushes/yr.

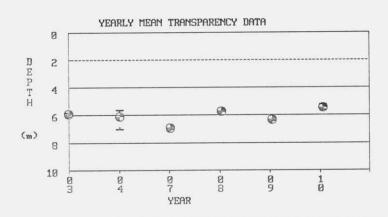
VOLUME: 1956068.8 cu. m. (1587 ac.-ft.)

DIRECT DRAINAGE AREA: 1.43 sq. km. (0.55 sq. mi.)

PLEASE NOTE THE FOLLOWING: The SAMPLE STATION # refers to the location sampled. The term TRUE BASIN is used to define areas within a lake that are separated by shallow reefs or shoals and therefore function as separate lakes. There are approximately 50 lakes in the state that have more than 1 True Basin. True Basin Characteristics are now being included in the first section of these reports to enable users of the Phosphorous Loading Methodology to better evaluate the data. If there is no data for a particular True Basin, True Basin Characteristics must be obtained from the DEP. MOOSE HILL P has 1 True Basin(s).

SECCHI DISK TRANSPARENCY GRAPHS:





Note: 2010 graphs may indicate multiple readings taken on a given day.

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

[* indicates that Secchi disk was visable at bottom of lake (or one reading used in calculation was visable)].

	MEAN	MEAN	MEAN	MEAN															
	COLOR	pН	ALK	COND.	TOTAL	PHOS.	MEANS	(ppb)	SECCH	I DISK	(m.)		CHLORO	PHYLL	A(ppb)	TROP	HIC ST	ATE IN	DICES
	(SPU)		(mg/l)	(us	EPI	SURF	BOT.	PRO.								EPI	PHOS		
YEAR				/cm)	CORE	GRAB	GRAB	GRAB	MIN.	MEAN	MAX.	<u>N</u>	MIN.	MEAN_	MAX.	<u>C</u>	<u>G</u>	SEC	CHL
2003	0.7	99 7 791			-		1-7	-	5.8	5.9	6.1	1		+0	-	-	-	-	=
2004	9	7.42	11.0	85	5	-	-	-	5.6	6.1	7.0	4	2.3	2.3	2.3	-		-	-
2007			-	-	-	-	-	-	6.9	6.9	7.0	1	-	-	-	-	-	-	-
2008	-	-	-	-	-	0 - 1	-	-	5.7	5.7	5.7	1	-	_	-	_		-	-
2009	-		-	-	-	5	-	-	6.3	6.3	6.4	1	-	-	-	-	-	-	-
2010	-	-	-	-	-	6	-	-	5.2	5.4	5.6	1	-	-	-	-	-	-	-
SUMMARY:	9	7.42	11.0	85	5	6	-	-	5.2	6.1	7.0	6	2.3	2.3	2.3	-	-	-	-

LAKE: MOOSE HILL P (VLMP 07)

TOWN: LIVERMORE FALLS COUNTY: ANDROSCOGGIN MIDAS: 5790
*TRUE BASIN: 1
*SAMPLE STATION: 1

LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

				5	SAMPLE	DATE					
DEPTH	08/09	9/04	08/10	0/07	08/11	1/08	08/19	1/09	08/19/10		
m	°C_	ppm	°C_	mag	°C_	ppm	°C_	ppm	°C	mqq	
0.0	23.7	8.2	22.4	9.1	22.4	10.0	27.5	8.8	25.6	99.9	
1.0	23.7	8.1	22.4	9.1	22.4	9.8	27.6	8.7	24.9	99.9	
2.0	23.7	8.1	22.3	9.1	22.4	9.7	27.5	8.7	24.5	99.9	
3.0	23.7	8.1	21.8	9.1	22.4	9.5	26.0	9.1	24.3	99.9	
4.0	23.6	8.2	21.6	9.1	21.9	9.3	24.5	9.1	24.2	99.9	
5.0	17.9	12.3	21.5	9.0	21.6	9.3	21.6	10.3	24.0	99.9	
6.0	13.5	11.0	19.2	13.3	19.0	12.2	16.8	11.9	22.4	99.9	
7.0	10.9	8.1	11.6	10.4	11.0	9.8	11.0	6.4	12.5	99.9	
8.0	8.8	4.7	9.7	7.0	9.4	8.9	9.3	4.5	10.2	99.9	
9.0	7.9	2.3	8.8	3.7	-		8.1	1.8	8.9	99.9	
10.0	7.4	0.5	8.1	1.1	7.7	3.4	7.6	0.3	7.7	99.9	

WATER QUALITY SUMMARY

MOOSE HILL POND, LIVERMORE FALLS

Midas: 5790, Sample Station # 1

The Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate water quality, track algal blooms, and determine water quality trends. This dataset does not include bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring datasets for Moose Hill Pond have been collected since 2003. During this period, 1 year of basic chemical information was collected in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Moose Hill Pond is considered to be above average, based on measures of SDT, total phosphorus (TP) and Chlorophyll-a (Chla). The potential for nuisance algal blooms on Moose Hill Pond is low.

Water Quality Measures: Moose Hill Pond is a non-colored lake (average color 9 SPU) with an average SDT of 6.3m (20.7ft). The water column TP for Moose Hill Pond is 5 parts per billion (ppb), while Chla is 2.3 ppb. Recent dissolved oxygen (DO) profiles show low DO depletion in deep areas of the lake. The potential for TP to leave the bottom sediments and become available to algae in the water column (internal loading) is low.

See ME-DEP Explanation of Lake Water Quality Monitoring Report for measured variable explanations. Additional lake information can be found on the Internet at http://www.lakesofmaine.org/ and/or http://www.maine.gov/dep/blwq/lake.htm, or telephone the ME-DEP at 207-287-3901 or the VLMP at 207-783-7733.

Filename: moos5790, Revised: 3/08, By: jp